

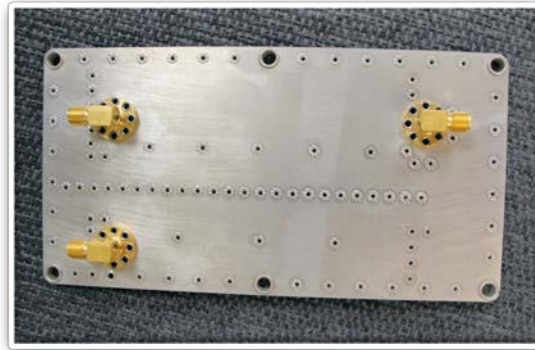


# DIPLEXER

Haigh-Farr's Model DP2-19905 diplexer utilizes the same well-proven, rugged construction as our Wraparound™, Flexislot™ and Omnislots™ antennas.

For most applications they are provided flat, however, they may be provided curved to naturally mate with cylindrical or conical surfaces.

This diplexer is typically used with Haigh-Farr's model BN1-13100 broadband Button antenna.



## ELECTRICAL:

<b>Operating Bands:</b>	1.15 to 1.4 GHz and 3.1 to 3.4 GHz
<b>Number of Ports:</b>	3
<b>Impedance:</b>	50 Ohms nominal
<b>VSWR:</b>	1.2:1 typical, 1.5:1 max – over bands
<b>Max Input Power:</b>	50 watts CW, 2 KW peak
<b>Insertion Loss:</b>	< 0.5 dB from 1.15 to 1.4 GHz
<b>Between Coupled Ports:</b>	< 0.7 dB from 3.1 to 3.4 GHz
<b>Insertion Loss:</b>	70 dB min. from 1.15 to 1.4 GHz
<b>Between Isolated Ports:</b>	50 dB min. from 3.1 to 3.4 GHz

## MECHANICAL:

<b>Connector:</b>	Right angle SMA female (straight SMA female optional)
<b>Dimensions:</b>	See attached drawing (may be provided flat or curved for conformal fit to cylindrical or conical surfaces)
<b>Finish:</b>	All exposed metallic surfaces either nickel-plated per QQ-N-290 or gold plated per MIL-PRF-39012
<b>Environmental:</b>	Typical for supersonic tactical missiles and kinetic kill weapons
<b>Mounting/Securing:</b>	Six thru holes allow mounting with #6 or M3.5 screws
<b>Construction:</b>	The diplexer is of stripline construction with all circuitry on the inside and mounting will be to #6 or M3.5 screws

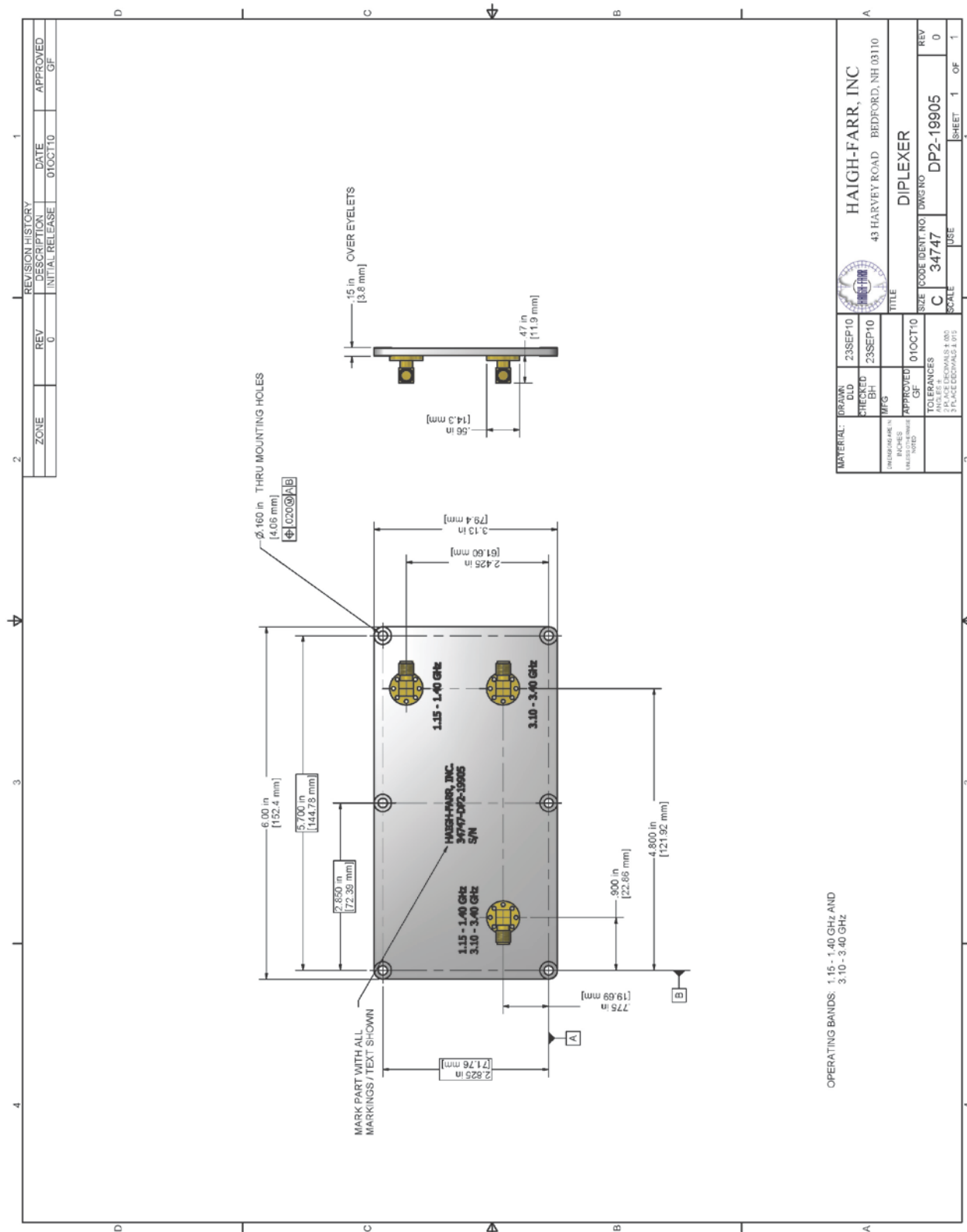
## DESIGN CAPABILITY:

Haigh-Farr has over 50 year history of designing and producing exceptionally rugged, high-performance antennas. If you don't find an antenna meeting your requirements in our standard list of products, Haigh-Farr has the experience and modeling capability to customize a solution. Adaptations of existing designs can be done with very short lead times. Contact Haigh-Farr for a review of your antenna requirements.

**Note:** All Electrical and Mechanical design parameters may be tailored for specific applications.



# DIPLEXER



REVISION HISTORY	DATE	APPROVED
DESCRIPTION	01OCT10	GF
INITIAL RELEASE		
REV 0		
ZONE		

MATERIAL:	DESIGN:	23SEP10	HAIGH-FARR, INC
CHECKED:	OLD:	23SEP10	43 HARVEY ROAD BEDFORD, NH 03110
BY:	BH:		
DATE:	MFG:		
APPROVED:	GF:	01OCT10	DIPLEXER
TOLERANCES:	SIZE:	CODE IDENT NO:	DP2-19905
2 PLACE DECIMALS ± 0.03	SCALE:	USE:	
3 PLACE DECIMALS ± 0.01	SHEET:	1	OF 1